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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/648,919	08/25/2000	Kenneth W. Marr	303.632US1	7312
21186 75	590 02/10/2003			
SCHWEGMA P.O. BOX 2938	M.D.D.A. 2936		EXAMINER	
MINNEAPOLI			NGO, NO	GAN V
			ART UNIT	PAPER NUMBER
			2814	
			DATE MAILED: 02/10/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

1		Application No.	Applicant(s)				
	Office And	09/648,919	MARR, KENNETH W.				
	Office Action Summary	Examiner	Art Unit				
	Tt. III.	Ngan Ngo					
	The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address				
	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If the period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any Status						
	1) Responsive to communication(s) filed on <u>27</u>	December 2002					
	70\ Th's a st. =	nis action is non-final.					
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
	4)⊠ Claim(s) <u>1-29 and 33-35</u> is/are pending in the	application.					
	4a) Of the above claim(s) <u>8-12 and 14-16</u> is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>1-7,13,17-29 and 33-35</u> is/are rejected.						
	7) Claim(s) is/are objected to.						
	8) Claim(s) are subject to restriction and/or	· election requirement					
Application Papers							
9) The specification is objected to by the Examiner.							
	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Everyings						
	A spinoant may not request that any objection to the drawing(s) he hold in above the drawing of						
	approved by						
	and required in telling and and and an analysis and an analysi						
iz) The path or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
	a) ☐ None of:		u) (i).				
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents t	Tave been received in Application	Nie				
	Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
1	14) Acknowledgment is made of a claim for domestic priority under 25 to 5.						
1	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
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2) L 3) [Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	4) Interview Summary (PT 5) Notice of Informal Pater 6) Other:	O-413) Paper No(s) nt Application (PTO-152)				
J. PatTO-3	ent and Trademark Office 326 (Rev. 04-01)						

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The amendment filed November 13, 2002 has been entered and made of record as paper no. 14.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6, 7, 13, 17-22, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimizu et al (of record).

Shimizu discloses an ESD protection device in figures 1 and figure 2 having a first doped region (22), a bonding pad (25), a second doped region (23 or 24), and a power node (Vss). It would have been obvious to one of ordinary skill in the art that there is no isolation structure between the first and second doped regions.

Claims 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shimizu et al as applied to claims 1-4, 6, 7, 13, 17-22, and 27 above, and further in view of Yu et al (of record).

Yu discloses a first and a second isolation structures (58) in order to separate one device from another device. It would have been obvious to one of ordinary skill in the art to form the isolation structures in Shimizu's device as taught by Yu.

Claims 23-26, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimizu et al as applied to claims 1-4, 6, 7, 13, 17-22, and 27 above, and further in view of Mackawa (of record).

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Mackawa discloses an ESD protection circuit comprising two voltage sources (VDD and GND), an external bonding pad (1704), and two protection circuits (1700 and 1702). It would have been obvious to one of ordinary skill in the art to use two voltage sources in Shimizu's device to provide extra protection circuit as taught by Mackawa.

Claims 29 and 33-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimizu et al as applied to claims 1-4, 6, 7, 13, 17-22, and 27 above, and further in view of Lin (of record).

Shimizu further discloses that ESD protection circuit can be used a semiconductor chip. Note lines 17-24 of column 1. Shimizu does not disclose the connection between the ESD protection circuit and the pins of the semiconductor chip. However, Lin teaches that a protection circuit can be connected to the pins of the semiconductor chip. Note lines 52-57 of column 1 of Lin. Therefore, it would have been obvious to one of ordinary skill in the art to connect ESD protection circuit in Shimizu to the pins of the semiconductor chip in order to prevent ESD current from flowing into the internal circuit via the pins as taught by Lin.

Applicant's arguments with respect to claims 1-7, 13, 17-29, and 33-35 have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication should be directed to Examiner Ngan Ngo at telephone number (703) 308-4938. The fax number for the Art unit is (703) 308-7722.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Ngan Van Ngo Primary Examiner

Ngan Ngo

January 30, 2003